

SECTION 1: IDENTIFICATION

Product Name: BI-4543
SDS Number: 250625-02
Product Description: Water Treatment Chemical
Revision Date: 06/25/2025
Product Use: Water Treatment
Company: Apex Water + Process
12270 43rd Street NE
St. Michael MN 55376
Website: www.TeamApex.com
Contact: Non-Emergency (952) 227-6610
Emergency Response: **For Hazardous Materials Incident, Spill, Leak, Fire, Exposure, or Accident Call: CHEMTREC at (800) 424-9300 CCN 1018609**

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification: Skin Corrosion/Irritation, Category 2
1-4 (1 most severe) Serious Eye Damage, Category 2
Skin Sensitization, Category 1

Signal Word(s): WARNING

Pictograms:



Hazard Statements: May cause an allergic skin reaction.
Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements

Prevention: Read SDS and label before use. Always wear appropriate PPE. Wash affected body parts thoroughly after handling. Do not eat, drink, or smoke when using this product. Keep out of reach of children. Do not breathe mist/spray.

Response: IF SWALLOWED: Do not induce vomiting. Rinse mouth with water; IF ON SKIN OR HAIR: Wash with plenty of water; IF IN THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell; IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Storage: See Section 7.

Disposal: Dispose of contents and container in accordance with federal, state, and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	CHEMICAL NAME	% WT. or % Vol.
1310-73-2	Sodium hydroxide	5 – 10
26099-09-2	Polymaleic acid	1 – 5

Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

SECTION 4: FIRST AID MEASURES

Eyes: Flush eyes with plenty of running water for 15 minutes. Seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Consult a physician if irritation develops.

Ingestion: If conscious, give plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention.

Inhalation: Remove from contamination and seek fresh air. Call a physician if any difficulties persist. If person has stopped breathing administer artificial respiration.

Note to Physician: Treat symptomatically and supportively.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Agents: Foam
Carbon Dioxide (CO₂)
ABC Powder
Water Mist

Specific Hazards During Firefighting: Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.

Specific Extinguishing Methods: User extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

Specific PPE for Firefighters: In the event of fire, wear a self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

SECTION 6:

ACCIDENTAL RELEASE MEASURES

Spill Response: Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly with observing environmental regulations.

Spill Notification: Determine if federal, state, and/or local release notification is required.

SECTION 7:

HANDLING AND STORAGE

Advice on Safe Handling: Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for Safe Storage: No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to Avoid: Do not freeze. Keep away from food and drink. Keep away from tobacco products.

SECTION 8:

EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL) or OSHA (PEL).

COMPONENT	TYPE	VALUE/NOTATION
Sodium hydroxide	PEL TWA	2 mg/m ³ TWA 2 mg/m ³ Ceiling

Engineering Controls: Provide local exhaust ventilation as needed to control misting. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment:



Body Protection: Chemically resistant materials and fabrics. Wear chemically protective boots, aprons and gauntlets to prevent prolonged or repeated skin contact.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Wear protective eyeglasses or chemical safety splash goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA.NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel or storage tanks), wear and SCBA. Warning! Air-purifying respirators do not protect worker in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning and convenient sanitary storage areas.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fluorescent green/orange liquid
Odor:	No data available
Odor Threshold:	No data available
pH:	6 – 7
Melting Point/Freezing Point:	No data available
Boiling Point/Range:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	N/A
Upper/Lower Explosion Limit:	N/A
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	1.12 – 1.16 g/mL
Water Solubility:	100%
Partition Coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Product is stable under normal storage and use conditions.
Possibility of Hazardous Reactions:	Stable under recommended storage conditions.
Conditions to Avoid:	Avoid extreme temperatures. Keep container closed when not in use.
Incompatible Materials:	Strong acids and bases, leather, wool, aluminum, zinc, tin and alloys, oxidizers or any type of reactive material.
Hazardous Decomposition Products:	None under normal storage and use conditions. Additional information, see Section 5.

SECTION 11:

TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin:	Contains a known skin sensitizer. May cause an allergic skin reaction in susceptible individuals.
Eye:	No data available
Respiratory:	No data available
Ingestion:	No data available
Germ Cell Mutagenicity:	No data available
Carcinogenicity:	No components list as a carcinogen.
Reproductive Toxicity:	No data available
STOT (Single):	No data available
STOT (Repeated):	No data available
Aspiration Hazard:	No data available

SECTION 12:

ECOLOGICAL INFORMATION

Aquatic Toxicity:	No data available
Persistency & Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

SECTION 13:

DISPOSAL CONSIDERATIONS

Disposal Methods:	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal Considerations:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14:

TRANSPORT INFORMATION

UN Number:	N/A
Description of the Goods:	DOT Not Regulated
Class:	N/A
Packing Group:	N/A
Environmental Hazards:	N/A

DOT Transportation data (49 CFR 172.101)

Based on available data, this material does not meet the criteria for classification as a corrosive substance under DOT regulations (49 CFR §173.137). No additional hazard data is available at this time.

SECTION 15:

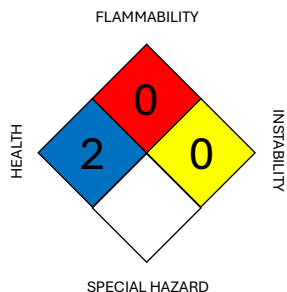
REGULATORY INFORMATION

TSCA Inventory Status: All ingredients are listed as active on the TSCA inventory
DSCL (EEC): All ingredients are listed as active on the DSCL inventory
California Proposition 65: Not Listed
SARA 302: Not applicable
SARA 304: Not Listed
SARA 311/312: Acute Health Hazard, Skin Sensitizer
CERCLA: Sodium hydroxide, RQ – 1,000 lbs

SECTION 16:

OTHER INFORMATION

NFPA:



Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

HMIS III:

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe
* = Chronic

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0